$$1002021 \, 0 \bullet 00000000000 \, f(x) = x ln x_0$$

$$0 = 3 = 0 = b > 0 = f(x) + (a + b)h2...f(a + b) - f_{b}$$

$$00000010^{-1} \quad f(x) = 1 + \ln x \quad (x > 0) - - - - 010000010^{-1}$$

$$\mathbb{L} \ e{>}1_{\square}\overset{\cdot ... \times}{-} \frac{1}{e_{\square}}$$

$$\therefore f(x) = \begin{bmatrix} \frac{1}{e} & +\infty \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} \frac{1}{e} & 0 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} \frac{1}{e} & 0 \\ 0 & 0 \end{bmatrix}$$

$$f_{\texttt{lal}} + f_{\texttt{lbl}}..f(a+b) - (a+b) ln 2 - - - - 0700$$

$$000 g(x) = f(x) + f(k-x)(k>0) - - - - 0800$$

$$\therefore g(x) = x \ln x + (k-x) \ln (k-x) \underset{\square}{\dots} 0 < x < k$$

$$g(x) = \ln x + 1 - \ln(k - x) - 1 = \ln \frac{x}{k - x}$$

$$g(x) = \left[\frac{k}{2} - k\right]_{0000000} \left(0 - \frac{k}{2}\right]_{0000000}$$

$$\therefore g(x) = g(x) \cdot g(x) \cdot g(\frac{k}{2}) = - - - g(x) \cdot g(\frac{k}{2}) = - - - g(x) \cdot g(x) \cdot g(\frac{k}{2}) = - - - g(x) \cdot g(x) \cdot g(x) \cdot g(x) = - - - g(x) \cdot g(x)$$

$$g(\frac{k}{2}) = f(\frac{k}{2}) + (k - \frac{k}{2}) = k \ln \frac{k}{2} = k (\ln k - 2) = f(k) - k \ln 2$$

$$\therefore g(x)...f(k)-khn2 \underset{\square}{\square} f(x)+f(k-x)...f(k)-khn2 \underset{\square}{\square}----\underset{\square}{\square} 13 \underset{\square}{\square}$$

$$\therefore f_{\texttt{a}} + f_{\texttt{b}} \dots f(a+b) - (a+b) \ln 2$$

$$\therefore f_{\texttt{a}} + (a+b) \text{In2..} f(a+b) - f_{\texttt{b}} = 14 \text{ a}$$

$$2002021 \, \, | \bullet 000000000 \, \, e = 2.71828 \cdots) \, | \, a = \frac{e^{x}}{X} + (\ln x - x) \, | \, a = R_{11} \, a_{11000} \, e_{11000000000} \, e = 2.71828 \cdots) \, | \, a = 2.71828 \cdots | \, a =$$

olooo f(x) oo oo oo oo a

0000001000
$$f(x)$$
 00000 $(0,+\infty)$ 0

$$f(X) = a \cdot \frac{e^{Y}(X-1)}{X^{2}} - \frac{X-1}{X} = \frac{e^{Y}(X-1)}{X^{2}} (a - \frac{X}{e^{Y}})$$

$$U(X) = \frac{X}{e^{y}} \quad U(X) = \frac{1 - X}{e^{y}} \quad \square$$

$$\therefore \ln(k+1)...-1- \implies k+1..e^{+m}$$

$$0 \longrightarrow (k+1) m_{0000} h(m) = me^{1-m}$$

$$\therefore \square \square \stackrel{h(m)}{\longrightarrow} \square^{(0,1)} \square \square \square \square \square^{(1,+\infty)} \square \square \square \square$$

$$00000 (k+1) m_{00000} h(m) 00000 \frac{1}{e^{i}}$$

$$\text{disc} \, \mathcal{G}(\mathbf{X}) = f(\mathbf{X} + 1) \\ \text{decoded} \, \mathbf{X}. \, \mathbf{0} \\ \text{decoded} \, \mathcal{G}(\mathbf{X}) ... \, \mathbf{DX} \\ \text{decoded} \, \mathbf{D}$$

$$0 < f(a) + f(b) - 2f(\frac{a+b}{2}) < (b-a)\ln 2$$

$$0001000 f(x) = x \ln x_{00} f(x) = 1 + \ln x_{0} (x > 0)$$

$$\int f(x) = 0 \quad \text{on} \quad X = \frac{1}{e} \quad X \in (0, \frac{1}{e}) \quad f(x) < 0 \quad X \in (\frac{1}{e}, +\infty) \quad f(x) > 0$$

$$\int f(x) \int \frac{1}{e} dx = \frac{1}{e}$$

$$\text{deg}(x) = f(x+1) = (x+1) \ln(x+1)$$

$$0000 h(0) = 0_{0000} h(x)..0_{00000} h'(0)..0_{00} 1- m.0_{000} m, 1$$

000000
$$m$$
, $1_{00} H(x) = In(x+1) + 1 - m.0_{0000}$

 $000 m_{0000000} m$, 1

$$(III) \bigsqcup_{\square\square\square\square} F(x) = alna + xlnx - (a + x) ln \frac{a + x}{2} \bigsqcup_{\square} X > a_{\square} F(x) = 1 + lnx - ln \frac{a + x}{2} - 1 = ln \frac{2x}{a + x}$$

$$F_{b} > F_{a} = 0$$

$$G(x) = alna + xlnx - (a + x)ln\frac{a + x}{2} - (x - a)ln2$$

$$G(x) = \ln \frac{2x}{a+x} - \ln 2 = \ln \frac{x}{a+x} < 0$$

$$G(x)$$
 $(a, +\infty)$ 0000000

$$0 < f(a) + f(b) - 2f(\frac{a+b}{2}) < (b-a)\ln 2$$

4002021 • 000000000
$$f(x) = e^x - x_0 g(x) = (x + k) ln(x + k) - x_0$$

$$0100 K = 10 f(t) = g(t) = 000 t = 000$$

$$00000010^{\mid \downarrow \mid} \quad 00 \quad f(x) = e^x - x_{\mid \downarrow} g(x) = (x+k)h(x+k) - x_{\mid \downarrow}$$

$$\therefore f(x) = e^x - 1_{\square} g'(x) = ln(x+k)_{\square}$$

$$\varphi(t) = \vec{e} - \ln(t+1) - 1_{\square} \varphi'(t) = \vec{e} - \frac{1}{t+1}$$

$$\mathbb{I} \quad \varphi''(t) = \dot{e}' + \frac{1}{(t+1)^2} > 0$$

$$\mathbb{I} \cdot \varphi'(t) = (-1, +\infty)$$

$$\square X > 0 \square \square \varphi'(t) < 0 \square \varphi(t) \square \square \square \square$$

$$\therefore \varphi(t),, \varphi(0) = 0$$

$$0000 t = 0$$

$$f(t) = g(t) = 0 = 0 = 0$$

$$\prod_{x} h(x) = e^{x} - (b+1) \prod_{x} h(x) = e^{x}$$

$$\therefore \square^{X > h(b+1)} \square \square^{h(x) > 0} \square^{h(x)} \square \square \square \square$$

$$0 < x < h(b+1) = h(x) < 0 = h(x) = 0$$

$$= (b+k)h(b+k) - (x+1)h(x+1) - khk_{\square}(x>0)_{\square}$$

$$(1) \underset{\square}{\cap} K > 1 \underset{\square}{\cap} U(X) > 0 \underset{\square}{\cap} U(X) \underset{\square}{\cap} (0, +\infty) \underset{\square}{\cap} (0, +\infty)$$

$$\therefore t(x) > t(0) = 0$$

$$(ii)$$
 $K=1$ $K=1$ $K=1$

$$(iii) \mathop{\square} 0 < k < 1 \mathop{\square} 0 \stackrel{}{\leftarrow} t(x) < 0 \mathop{\square} t(x) \mathop{\square} (0, +\infty) \mathop{\square} \square \square \square \square$$

$$\therefore t(x) < t(0) = 0_{\square \square \square \square \square \square \square}$$

$$5002021 \cdot 0000000 a \neq 00000 f(x) = alnx + \sqrt{1 + x} x > 0$$

$$a = -\frac{3}{4} = -\frac{3}{4} = 0$$

$$\lim_{n\to\infty} x \in [\frac{1}{e^n} + \infty) = f(x), \quad \frac{\sqrt{x}}{2a} = a_{000000}$$

 $00e^{-2.71828} - 000000000$

$$a = -\frac{3}{4} \prod_{n=1}^{\infty} f(x) = -\frac{3}{4} \ln x + \sqrt{1+x} \prod_{n=1}^{\infty} x > 0$$

$$f(x) = -\frac{3}{4x} + \frac{1}{2\sqrt{1+x}} = \frac{(\sqrt{1+x}-2)(2\sqrt{1+x}+1)}{4x\sqrt{1+x}}$$

$$0 < a$$
, $\frac{\sqrt{2}}{4}$ or $f(x)$, $\frac{\sqrt{x}}{2a}$ or $\frac{\sqrt{x}}{a^2} - \frac{2\sqrt{1+x}}{a} - 2\ln x \cdot 0$

$$\int_{a}^{b} t = \frac{1}{a} \int_{a}^{b} t \cdot 2\sqrt{2} \int_$$

$$g(t) = \sqrt{x}(t - \sqrt{1 + \frac{1}{x}})^2 - \frac{1 + x}{\sqrt{x}} - 2\ln x$$

$$(i) \, {\scriptstyle \square}^{\, X \in \, [\frac{1}{7} \, {\scriptstyle \square}^{\, + \infty})} \, {\scriptstyle \square \square} \, \sqrt{1 + \frac{1}{X^{''}}} \, 2 \sqrt{2} \, {\scriptstyle \square}$$

$$\int g(x) \cdot g(2\sqrt{2}) = 8\sqrt{x} - 4\sqrt{2}\sqrt{1 + x} - 2\ln x$$

$$p(x) = 4\sqrt{x} - 2\sqrt{2}\sqrt{1 + x} - \ln x = \frac{x}{7}$$

$$p(x) = \frac{2}{\sqrt{x}} - \frac{\sqrt{2}}{\sqrt{x+1}} - \frac{1}{x} = \frac{2\sqrt{x}\sqrt{x+1} - \sqrt{2}x - \sqrt{x+1}}{x\sqrt{x+1}}$$

$$= \frac{(X-1)[1+\sqrt{X}(\sqrt{2X+2}-1)]}{X\sqrt{X+1}(\sqrt{X}+1)(\sqrt{X+1}+\sqrt{2X})}$$

X	$\frac{1}{7}$	$(\frac{1}{7} $ $_{\square} 1)$	1	(1,+∞)
p(x)		-	0	+
P(x)	$p(\frac{1}{7})$		000 ^P 010	

$$\therefore p(x)..p_{\Box 1\Box} = 0_{\Box}$$

$$g(x) = 2p(x) = 2p(x) = 2p(x) = 0$$

$$(ii) \prod_{i=1}^{N} X \in [\frac{1}{e^{i}}, \frac{1}{7}) \prod_{i=1}^{N} g(t) ... g(\sqrt{1 + \frac{1}{X}}) = \frac{-2\sqrt{xt}nx - (x+1)}{2\sqrt{x}}$$

$$Q'(x) = \frac{\ln x + 2}{\sqrt{x}} + 1 > 0$$

$$\therefore g(x) < 0 \quad \therefore g(x) \cdot g(\sqrt{1 + \frac{1}{x}}) = -\frac{g(x)}{2\sqrt{x}} > 0$$

$$\lim_{n\to\infty} x \in \left[\frac{1}{e^{x}}\right]_{+\infty} = \int_{-\infty}^{\infty} f(x)_{n} \frac{\sqrt{x}}{2a}$$

$$00000000 a_{000000} (0_{0} \frac{\sqrt{2}}{4}]_{0}$$

$$00000010^{1} \quad a = b = c_{0} \therefore f(x) = (x - a)^{3}$$

$$\therefore 4- a=2_{\Box\Box\Box} a=2_{\Box}$$

$$\int f(x) = (X - a)(X - b)^2 = 0_{1} = X = a_{1} = X = b_{1}$$

$$f(x) = (x - b)^2 + 2(x - a)(x - b) = (x - b)(3x - b - 2a)$$

$$\int f(x) = 0 = 0 = X = b = X = \frac{2a+b}{3}$$

$$a = 1_{\square} b = -3_{\square} \frac{2a+b}{3} = \frac{2-3}{3} = -\frac{1}{3} \notin A$$

$$a = 3 \quad b = 1 \quad \frac{2a + b}{3} = \frac{6+1}{3} = \frac{7}{3} \notin A$$

$$a=1$$
 $b=3$ 0 $\frac{2a+b}{3}=\frac{5}{3} \notin A$ 0 0 0

$$a = 3 \quad b = -3 \quad \frac{2a + b}{3} = \frac{6 - 3}{3} = 1 \in A$$

$$a = 3 b = -3$$
 $a = 3 b = -3$

$$f(x) = 3x - (-3)(x - 1)$$

$$00 X = 1_{0000} f(x)_{000000} f_{010} = -2 \times 4^2 = -32_{000000}$$

$$0 = 0 \quad 0 < h, 1 \quad c = 1$$

$$f(x) = x(x-b)(x-1)$$

$$f(x) = (x-b)(x-1) + x(x-1) + x(x-b) = 3x^2 - (2b+2)x + b_{\square}$$

$$=4(b+1)^2-12b=4b^2-4b+4=4(b-\frac{1}{2})^2+3.3$$

$$X_{1} = \frac{b+1-\sqrt{b^{2}-b+1}}{3} \in (0,\frac{1}{3}] \quad X_{2} = \frac{b+1+\sqrt{b^{2}-b+1}}{3} \quad X_{3} < X_{2} = \frac{b+1+\sqrt{b^{2}-b+1}}{3}$$

$$X_1 + X_2 = \frac{2b+2}{3} \prod_{1} X_1 X_2 = \frac{b}{3} \prod_{1} X_1 X_3 = \frac{b}{3} \prod_{1}$$

$$00^{X=X_1}00^{f(\lambda)}000000^{M_0}$$

$$b = \frac{3t^2 - 2t}{2t - 1}$$

$$\therefore M = f(x_1) = x_1(x_1 - b)(x_1 - 1) = t(t - b)(t - 1) = \frac{-t^2 + 2t^2 - t^2}{2t - 1}$$

$$M = \frac{-6t^4 + 12t^2 - 8t^2 + 2t}{(2t-1)^2}$$

$$\Box g(t) = -6t^{6} + 12t^{6} - 8t + 2\Box$$

$$g(t) = -18t^2 + 24t - 8 = -2(3t - 2)^2 < 0$$

$$\int_{0}^{\infty} g(t) \int_{0}^{\infty} t \in (0, \frac{1}{3}] \int_{0}^{\infty} g(\frac{1}{3}) = \frac{4}{9} > 0$$

$$\therefore t \cdot g(t) > 0_{\prod} \therefore M > 0_{\prod}$$

$$\therefore 00^{M(t)} 0^{t \in (0,\frac{1}{3}]} 000000$$

$$\therefore M(t), M(\frac{1}{3}) = \frac{4}{27}$$

7002021
$$\bigcirc \bullet$$
 00000000 $f(x) = 1 - \frac{1}{x} + alnx (a \in R) \bigcirc 0$

$$2000 g(x) = 2(x+1) + xf(x) = 0000 0 < a, 100 g(x) > 0 = 0000$$

$$f(x) = \frac{1}{x^{2}} + \frac{a}{x} = \frac{1 + ax}{x^{2}} =$$

$$0 = a < 0 \quad \text{if } f(x) > 0 \Rightarrow 0 < x < -\frac{1}{a} \quad f(x) < 0 \Rightarrow x > -\frac{1}{a} \quad \text{if } x > 0 \Rightarrow x >$$

:.
$$f(x)_{00000000}(0,-\frac{1}{a})_{00000000}(-\frac{1}{a},+\infty)_{004}(0)$$

$$2 \ \mathcal{G}(x) = 2(x+1) + x-1 + axtnx = 3x+1 + axtnx(x>0)$$

$$00000000 g(x) = 3 + a(\ln x + 1) = a\ln x + 3 + a_{00} g(x) = 0 \Rightarrow x = e^{\frac{-(3+a)}{a}} 005 00$$

$$g(x) \cap \left(0, e^{\frac{-(3+a)}{a}}\right) \downarrow , \left(e^{\frac{-(3+a)}{a}}, +\infty\right) \uparrow$$

$$\int_{-\infty}^{\infty} g(x) \cdot dx \cdot g(e^{\frac{-(3+a)}{a}}) \int_{-\infty}^{\infty} g(e^{\frac{-(3+a)}{a}}) = 3 \cdot e^{\frac{-(3+a)}{a}} + 1 + a \cdot e^{\frac{-(3+a)}{a}} \cdot \frac{-(3+a)}{a} \cdot \frac{-(3+a)}{a}$$

$$\frac{-\left(3+a\right)}{a}=t(t,-4), \quad g(t)=3\cdot\vec{e}+1+\frac{-3t}{t+1}\cdot\vec{e}(t,-4)$$

$$3 \cdot \vec{e} + 1 + \frac{-3t}{t+1} \cdot \vec{e} > 0$$

$$1 + \frac{3\dot{e}}{t+1} > 0 \qquad h(t) = 1 + \frac{3\dot{e}}{t+1}, (t, -4) \qquad 009 \quad 00$$

$$H(t) = \frac{3t\dot{e}}{(t+1)^2} < 0$$

$$(-\infty, -4)$$

$$h(t)...h(-4) = 1 - \frac{1}{e^4} > 0 \quad 1 + \frac{3e^4}{t+1} > 0$$

$$0 < a_n 1_0 g(x) > 0_0 000012 00$$

$$g(x) = 3x + 1 + ax \ln x = x(3 + \frac{1}{x} + a \ln x), (x > 0)$$

$$h(x) = 3 + \frac{1}{x} + alnx, \quad h(x) = -\frac{1}{x^2} + \frac{a}{x} = \frac{ax-1}{x^2}$$

$$H(x) > 0 \Rightarrow x > \frac{1}{a}, H(x) < 0 \Rightarrow 0 < x < \frac{1}{a}$$

$$h(x) = \left(0, \frac{1}{a}\right) \downarrow , \left(\frac{1}{a}, +\infty\right) \uparrow \qquad h(x) ... h(\frac{1}{a}), h(\frac{1}{a}) = 3 + a - alna$$

18
$$h(x)_{nm} = h(\frac{1}{a}) = 3 + a - alna_{0} = a \in (0_{0}1]_{0} : lna_{0}0_{0}0_{0}$$

$$0 < a_n 1_{00} g(x) > 0_{0000012}$$

$$28 \ h(\frac{1}{a}) = 3 + a - alna = a(\frac{3}{a} + 1 - lna) \qquad \qquad \frac{3}{a} + 1 - lna > 0$$

$$r(a) = \frac{3}{a} + 1 - \ln a, (0 < a, 1), [] r'(a) = -\frac{3}{a^2} - \frac{1}{a} < 0$$

$$\therefore \mathit{\Gamma}_{\square a \square \square}^{\,(0,1)} \, {\scriptstyle \square \square \square \square 10} \, {\scriptstyle \square \square}$$

$$r_{a} = 4 > 0$$
, $\frac{3}{a} + 1 - \ln a > 0$

$$0 < a_n 1_{00} g(x) > 0_{0000012}$$

$$8002021 \bullet 0000000 \quad f(x) = x^2 + k \ln x (k \in R) \quad f(x) \quad f(x) \quad 00000$$

$$\prod \prod k = 6 \prod$$

$$\lim_{n\to\infty} y = f(x) \lim_{n\to\infty} (1_n f_{n1n}) \lim_{n\to\infty} f(x) = f(x) \lim_{n\to\infty} (1_n f_{n1n}) \lim_{n\to\infty} f(x) = f(x) = f(x) \lim_{n\to\infty} f(x) = f(x$$

$$g(x) = f(x) - f(x) + \frac{9}{x}$$

$$\lim_{x \to \infty} K = 3 + \lim_{x \to \infty} X_1 = [1_0 + \infty) + \lim_{x \to \infty} X_2 = \lim_{x \to \infty} \frac{f(x) + f(x_2)}{2} > \frac{f(x) - f(x_2)}{x_1 - x_2} = \lim_{x \to \infty} \frac{f(x) + f(x)}{x_1 - x_2} = \lim_$$

$$000000 (I)(i)_{\square} k = 6_{\square\square} f(x) = x^3 + 6Inx_{\square}$$

$$f(x) = 3x^2 + \frac{6}{x_0}$$

$$\therefore f_{\boxed{1}\boxed{1}}=9_{\boxed{1}}$$

$$f_{11} = 1$$

$$y = f(x)_{00} (1_0 f_{010})_{0000000} y - 1 = 9(x - 1)_{00} 9x - y - 8 = 0_0$$

(ii)
$$g(x) = f(x) - f(x) + \frac{9}{x} = x^2 + 6\ln x - 3x^2 + \frac{3}{x_{\prod}} x > 0_{\prod}$$

$$\therefore g'(x) = 3x^2 - 6x + \frac{6}{x} - \frac{3}{x^2} = \frac{3(x-1)^3(x+1)}{x^2}$$

$$\scriptstyle x=1_{\scriptstyle 000000000} g_{\scriptstyle 010}=1_{\scriptstyle 0000}$$

$$f(x) = X^2 + k h x$$

$$f(x) = 3x^2 + \frac{k}{x}$$

$$(x - x_2)[f(x) + f(x_2)] - 2[f(x) - f(x_2)] = (x - x_2)(3x_1^2 + \frac{k}{x_1} + 3x_2^2 + \frac{k}{x_2}) - 2(x_1^3 - x_2^3 + kln\frac{x_1}{x_2})$$

$$= X_1^3 - X_2^3 - 3X_1^2X_2 + 3X_1X_2^2 + k(\frac{X_1}{X_2} - \frac{X_2}{X_1}) - 2kln\frac{X_1}{X_2}$$

$$= X_{2}^{3}(t^{2} - 3t^{2} + 3t - 1) + k(t - \frac{1}{t} - 2lnt)$$

$$h(x) = x - \frac{1}{x} - 2\ln x$$

$$\therefore h(x)_{\square}(1,+\infty)_{\square\square\square\square\square}$$

$$\therefore t > 1$$
 $h(t) > h_{11} = 0$ $t - \frac{1}{t} - 2\ln t > 0$

$$1 X_2..1_{\square} t^6 - 3t^6 + 3t - 1 = (t-1)^3 > 0_{\square} k... 3_{\square}$$

$$\therefore x_2^3(t^6-3t^6+3t-1) + k(t-\frac{1}{t}-2lnt)...t^6-3t^6+3t-1-3(t-\frac{1}{t}-2lnt) = t^6-3t^6+6lnt+\frac{3}{t}-1$$

$$\operatorname{coid}^{(\vec{D})}\operatorname{coo}^{t.1}\operatorname{co}^{g(t)} > g_{010}$$

$$t^{t} - 3t^{t} + 6lnt + \frac{3}{t} > 1$$

$$9002021 \cdot 000000000 f(x) = lnx x + 10$$

$$20000X \in (1,+\infty) \quad 1 < \frac{X-1}{\ln X} < X$$

$$\begin{array}{c} | 3 |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{1} + (c - 1)x > c' |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_{0} |_$$

$$\therefore x \in (0,1) \underset{\square}{\cap} G(x) > 0_{\square \square \square \square \square \square \square \square}$$

$$\ \, \bigcirc C > 1 \ \, \bigcirc X \subseteq (0,1) \ \, \bigcirc \bigcirc 1 + (C - 1) X > C^{\times} \ \, \bigcirc$$



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